

U.S. Department of Commerce, Patent and Trademark Office				Atty Docket No.		Serial No.		
				LUM-9390-1D		Not yet known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Applicant(s)				
(Use several sheets if necessary)				Carrie Carter Coman; Fred A. Kish Jr.; Michael R. Krames and Paul S. Martin				
				Filing Date		Group		
				Herewith		Not yet known		
U.S. Patent Documents								
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
GM	AA	6,376,269	4/23/02	Chan et al.	438	29		
	AB	6,291,839	9/18/01	Lester	257	91		
	AC	6,194,743	2/27/01	Kondoh et al.	257	94		
	AD	6,153,010	11/28/00	Kiyoku et al.	117	95		
	AE	5,985,687	11/16/99	Bowers et al.	438	46		
	AF	5,952,681	9/14/99	Chen	257	89		
	AG	5,862,167	1/19/99	Sassa et al.	372	45		
	AH	5,838,707	11/17/98	Ramdani et al.	372	45		
	AI	6,111,272	8/29/00	Heinen	257	94		
	AJ	5,390,210	2/14/95	Fouquet et al.	372	92		
	AK	5,821,571	10/13/98	Lebby et al.	257	98		
Foreign Patent Documents								
							Translation	
		Document	Date	Country	Class	Subclass	Yes	No
SM	AL	DE 197 15 572 A1	4/15/97	Germany				X
	AM	DE 195 11 415 A1	3/28/95	Germany				X
	AN	DE 199 45 465 A1	9/22/99	Germany				X
	AO	0 051 172 A1	10/12/81	EP				X
SM	AP	0 444 630 A1	2/27/91	EP				X
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
SM	AQ	Handbook of Chemistry and Physics, 1976-1977; CRC Press, 57 <sup>th</sup> Ed., pp. B47-B-48.						
	AR	Ng, Complete Guide to Semiconductor Devices, 1995, pp. 392-393.						
SM	AS	J.J. Dudley, D.I. Babic, R. Mirin, L. Yang, B.I. Miller, R.J. Ram, T. Reynolds, E.L. Hu, and J.E. Bower, "Low Threshold, Wafer Fused Long Wavelength Vertical Cavity Lasers", Applied Physics Letters 64 (12), pp. 1463-1465.						
Examiner		Date Considered						
S. M. Kish		5/29/04						
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.								

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U.S. Patent Documents							
*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
CS	AA	5,496,766	3/5/96	Amano et al.	437	127	
	AB	4,243,966	1/6/81	Lebailly et al.	357	17	
	AC	6,110,277	8/29/00	Braun	117	94	
	AD	5,804,834	9/8/98	Shimoyama et al.	257	22	
SM	AE	6,104,044	8/15/00	Iyechika et al.	257	103	
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
Foreign Patent Documents,							
		Document	Date	Country	Class	Subclass	Translation
	AL	2 423 869	4/21/78	France			Yes No
	AM	GB 2307 791 A	6/4/97	UK			
	AN	EP 0 860 913 A3	8/26/98	EP			
	AO						
	AP						
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
SM	AQ	English language abstract of DE19945465, 1 page.					
SM	AR	English language abstract of EP0051172, B1, 1 page.					
	AS						
Examiner		Date Considered					
S. J. Smith		5/29/04					
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